

Steven L Bressler

List of Publications by Year in descending order

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80
papers

11,403
citations

76196

40
h-index

95083

68
g-index

84
all docs

84
docs citations

84
times ranked

10075
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale brain networks in cognition: emerging methods and principles. <i>Trends in Cognitive Sciences</i> , 2010, 14, 277-290.	4.0	1,953
2	Beta oscillations in a large-scale sensorimotor cortical network: Directional influences revealed by Granger causality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9849-9854.	3.3	939
3	Evaluating causal relations in neural systems: Granger causality, directed transfer function and statistical assessment of significance. <i>Biological Cybernetics</i> , 2001, 85, 145-157.	0.6	858
4	Cortical coordination dynamics and cognition. <i>Trends in Cognitive Sciences</i> , 2001, 5, 26-36.	4.0	734
5	Wiener's Granger Causality: A well established methodology. <i>NeuroImage</i> , 2011, 58, 323-329.	2.1	734
6	Episodic multiregional cortical coherence at multiple frequencies during visual task performance. <i>Nature</i> , 1993, 366, 153-156.	13.7	592
7	Large-scale cortical networks and cognition. <i>Brain Research Reviews</i> , 1995, 20, 288-304.	9.1	533
8	Short-window spectral analysis of cortical event-related potentials by adaptive multivariate autoregressive modeling: data preprocessing, model validation, and variability assessment. <i>Biological Cybernetics</i> , 2000, 83, 35-45.	0.6	519
9	Top-Down Control of Human Visual Cortex by Frontal and Parietal Cortex in Anticipatory Visual Spatial Attention. <i>Journal of Neuroscience</i> , 2008, 28, 10056-10061.	1.7	510
10	Frequency analysis of olfactory system EEG in cat, rabbit, and rat. <i>Electroencephalography and Clinical Neurophysiology</i> , 1980, 50, 19-24.	0.3	330
11	Frequency decomposition of conditional Granger causality and application to multivariate neural field potential data. <i>Journal of Neuroscience Methods</i> , 2006, 150, 228-237.	1.3	282
12	Operational principles of neurocognitive networks. <i>International Journal of Psychophysiology</i> , 2006, 60, 139-148.	0.5	237
13	Trial-to-trial variability of cortical evoked responses: implications for the analysis of functional connectivity. <i>Clinical Neurophysiology</i> , 2002, 113, 206-226.	0.7	199
14	The gamma wave: a cortical information carrier?. <i>Trends in Neurosciences</i> , 1990, 13, 161-162.	4.2	182
15	BSMART: A Matlab/C toolbox for analysis of multichannel neural time series. <i>Neural Networks</i> , 2008, 21, 1094-1104.	3.3	174
16	Interareal oscillatory synchronization in top-down neocortical processing. <i>Current Opinion in Neurobiology</i> , 2015, 31, 62-66.	2.0	140
17	Phase transitions in spatiotemporal patterns of brain activity and behavior. <i>Physica D: Nonlinear Phenomena</i> , 1995, 84, 626-634.	1.3	129
18	Understanding Cognition Through Large-Scale Cortical Networks. <i>Current Directions in Psychological Science</i> , 2002, 11, 58-61.	2.8	120

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19	Cognit activation: a mechanism enabling temporal integration in working memory. Trends in Cognitive Sciences, 2012, 16, 207-218.	4.0	113
20	Large-Scale Visuomotor Integration in the Cerebral Cortex. Cerebral Cortex, 2007, 17, 44-62.	1.6	102
21	Prestimulus Cortical Activity is Correlated with Speed of Visuomotor Processing. Journal of Cognitive Neuroscience, 2008, 20, 1915-1925.	1.1	102
22	Cortical Coordination Dynamics and the Disorganization Syndrome in Schizophrenia. Neuropsychopharmacology, 2003, 28, S35-S39.	2.8	99
23	Synchronized activity in prefrontal cortex during anticipation of visuomotor processing. NeuroReport, 2002, 13, 2011-2015.	0.6	96
24	Interareal synchronization in the visual cortex. Behavioural Brain Research, 1996, 76, 37-49.	1.2	93
25	Spatial organization of EEGs from olfactory bulb and cortex. Electroencephalography and Clinical Neurophysiology, 1984, 57, 270-276.	0.3	90
26	Relation of olfactory bulb and cortex. I. Spatial variation of bulbocortical interdependence. Brain Research, 1987, 409, 285-293.	1.1	87
27	Identifying true cortical interactions in MEG using the nulling beamformer. NeuroImage, 2010, 49, 3161-3174.	2.1	78
28	Dorsal anterior cingulate cortex modulates supplementary motor area in coordinated unimanual motor behavior. Frontiers in Human Neuroscience, 2015, 9, 309.	1.0	73
29	Causal influences in primate cerebral cortex during visual pattern discrimination. NeuroReport, 2000, 11, 2875-2880.	0.6	70
30	Estimation of single-trial multicomponent ERPs: Differentially variable component analysis (dVCA). Biological Cybernetics, 2003, 89, 426-438.	0.6	70
31	Cortical functional network organization from autoregressive modeling of local field potential oscillations. Statistics in Medicine, 2007, 26, 3875-3885.	0.8	67
32	Reversal of theta rhythm flow through intact hippocampal circuits. Nature Neuroscience, 2014, 17, 1362-1370.	7.1	67
33	Neurocognitive networks: Findings, models, and theory. Neuroscience and Biobehavioral Reviews, 2012, 36, 2232-2247.	2.9	66
34	GRANGER CAUSALITY BETWEEN MULTIPLE INTERDEPENDENT NEUROBIOLOGICAL TIME SERIES: BLOCKWISE VERSUS PAIRWISE METHODS. International Journal of Neural Systems, 2007, 17, 71-78.	3.2	65
35	Dynamic Activation of Frontal, Parietal, and Sensory Regions Underlying Anticipatory Visual Spatial Attention. Journal of Neuroscience, 2011, 31, 13880-13889.	1.7	64
36	ASEO: A Method for the Simultaneous Estimation of Single-Trial Event-Related Potentials and Ongoing Brain Activities. IEEE Transactions on Biomedical Engineering, 2009, 56, 111-121.	2.5	53

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37	Modeling positive Granger causality and negative phase lag between cortical areas. <i>NeuroImage</i> , 2014, 99, 411-418.	2.1	53
38	Past Makes Future: Role of pFC in Prediction. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 639-654.	1.1	50
39	Measuring Granger Causality between Cortical Regions from Voxelwise fMRI BOLD Signals with LASSO. <i>PLoS Computational Biology</i> , 2012, 8, e1002513.	1.5	47
40	Coordination Dynamics in Cognitive Neuroscience. <i>Frontiers in Neuroscience</i> , 2016, 10, 397.	1.4	47
41	Top-down beta oscillatory signaling conveys behavioral context in early visual cortex. <i>Scientific Reports</i> , 2018, 8, 6991.	1.6	47
42	Relation of olfactory bulb and cortex. II. Model for driving of cortex by bulb. <i>Brain Research</i> , 1987, 409, 294-301.	1.1	46
43	Differentially Variable Component Analysis: Identifying Multiple Evoked Components Using Trial-to-Trial Variability. <i>Journal of Neurophysiology</i> , 2006, 95, 3257-3276.	0.9	44
44	Foundational perspectives on causality in large-scale brain networks. <i>Physics of Life Reviews</i> , 2015, 15, 107-123.	1.5	42
45	The Role of Neural Context in Large-Scale Neurocognitive Network Operations. <i>Understanding Complex Systems</i> , 2007, , 403-419.	0.3	35
46	Stochastic modeling of neurobiological time series: Power, coherence, Granger causality, and separation of evoked responses from ongoing activity. <i>Chaos</i> , 2006, 16, 026113.	1.0	33
47	Potential of motor sub-networks for motor control but not working memory: Interaction of dACC and SMA revealed by resting-state directed functional connectivity. <i>PLoS ONE</i> , 2017, 12, e0172531.	1.1	33
48	Inferring the Dysconnection Syndrome in Schizophrenia: Interpretational Considerations on Methods for the Network Analyses of fMRI Data. <i>Frontiers in Psychiatry</i> , 2016, 7, 132.	1.3	31
49	Granger-Geweke causality: Estimation and interpretation. <i>NeuroImage</i> , 2018, 175, 460-463.	2.1	30
50	Top-down cortical interactions in visuospatial attention. <i>Brain Structure and Function</i> , 2017, 222, 3127-3145.	1.2	28
51	Inferential Constraint Sets in the Organization of Visual Expectation. <i>Neuroinformatics</i> , 2004, 2, 227-238.	1.5	23
52	Temporal dynamics of information flow in the cerebral cortex. <i>Neurocomputing</i> , 2001, 38-40, 1429-1435.	3.5	22
53	A symbolic information approach to determine anticipated and delayed synchronization in neuronal circuit models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20150110.	1.6	19
54	Investigation of cooperative cortical dynamics by multivariate autoregressive modeling of event-related local field potentials. <i>Neurocomputing</i> , 1999, 26-27, 625-631.	3.5	18

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55	Temporal dynamics of attention-modulated neuronal synchronization in macaque V4. <i>Neurocomputing</i> , 2003, 52-54, 481-487.	3.5	15
56	Measuring directed functional connectivity using non-parametric directionality analysis: Validation and comparison with non-parametric Granger Causality. <i>NeuroImage</i> , 2020, 218, 116796.	2.1	15
57	The Formation of Global Neurocognitive State. , 2007, , 61-72.		15
58	Dynamics on networks: assessing functional connectivity with Granger causality. <i>Computational and Mathematical Organization Theory</i> , 2009, 15, 329-350.	1.5	11
59	Event-Related Potentials of the Cerebral Cortex. <i>NeuroMethods</i> , 2011, , 169-190.	0.2	8
60	Response Hand and Motor Set Differentially Modulate the Connectivity of Brain Pathways During Simple Uni-manual Motor Behavior. <i>Brain Topography</i> , 2018, 31, 985-1000.	0.8	7
61	Context rules. <i>Behavioral and Brain Sciences</i> , 2003, 26, 85-85.	0.4	6
62	Inter-area Synchronization in Macaque Neocortex During a Visual Pattern Discrimination Task. , 1993, , 515-522.		6
63	Variability and interdependence of local field potentials: Effects of gain modulation and nonstationarity. <i>Neurocomputing</i> , 2001, 38-40, 983-992.	3.5	4
64	From nodes to networks: How methods for defining nodes influence inferences regarding network interactions. <i>Human Brain Mapping</i> , 2019, 40, 1458-1469.	1.9	4
65	Brain Synchronization and Multivariate Autoregressive (MVAR) Modeling in Cognitive Neurodynamics. <i>Frontiers in Systems Neuroscience</i> , 0, 15, .	1.2	4
66	On the tracking of dynamic functional relations in monkey cerebral cortex. <i>Neurocomputing</i> , 2000, 32-33, 891-896.	3.5	3
67	The detection of cognitive state transitions by stability changes in event-related cortical field potentials. <i>Neurocomputing</i> , 2001, 38-40, 1423-1428.	3.5	3
68	The function of neurocognitive networks. <i>Physics of Life Reviews</i> , 2014, 11, 438-439.	1.5	2
69	The Dynamic Manifestation of Cognitive Structures in the Cerebral Cortex. , 1999, , 121-126.		2
70	Bayesian analysis of single trial cortical event-related components. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	1
71	LARGE-SCALE CORTICAL NETWORK COORDINATION: A PROPOSAL FOR THE NEURAL SUBSTRATE OF EXPECTANCY. <i>New Mathematics and Natural Computation</i> , 2009, 05, 47-59.	0.4	1
72	Anticipatory Top-Down Interactive Neural Dynamics. <i>Advances in Cognitive Neurodynamics</i> , 2018, , 135-142.	0.1	1

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73	Organization of areal connectivity in the monkey frontoparietal network. <i>NeuroImage</i> , 2021, 241, 118414.	2.1	1
74	Large-scale integration of cortical information processing. <i>Advances in Psychology</i> , 1996, , 53-68.	0.1	0
75	Set-Related Neurocognitive Networks. <i>Advances in Cognitive Neurodynamics</i> , 2015, , 111-116.	0.1	0
76	Commentary by Steven L. Bressler. <i>Studies in Systems, Decision and Control</i> , 2016, , 127-134.	0.8	0
77	A symbolic information approach to characterize response-related differences in cortical activity during a Go/No-Go task. <i>Nonlinear Dynamics</i> , 2021, 104, 4401.	2.7	0
78	Directed Interregional Brain Interactions. , 2021, , 75-92.		0
79	Spectral Methods in Neural Data Analysis: Overview. , 2020, , 1-4.		0
80	Spectral Methods in Neural Data Analysis: Overview. , 2022, , 105-107.		0